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•	INFORMATION REPORT	CD NO.
COUNTRY	Germany (Russian Zone)	DATE DISTR. 23 AUG 50
SUBJECT 25X1	Development of High-Speed Cathode Ray Oscillograph at the Oberspreewerk	NO. OF PAGES 2
PLACE ACQUIRED	Development of High-Speed Cathode Ray Oscillograph at the Oberspreewerk OSCILLRY TO CLASSIARY	NO. OF ENCLS.
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		To who multi-massage for
25X1 ¹ ,	The device the decay time or prosprorus.	a phosphoroscope for 25X1
25X1 25X1	for an impossibly large frequency range upon Russistion, it was damaged in the course of its air trans	n insistence; in addi-
2 ₂ 25X1	The only time-measuring devices which are now developed and constructed in the Oberspreewerk are cathode ray oscillographs, if one chooses to apply the notion of time-measuring devices to them. Specifically, no time-measuring device to be used in connection with a detonating mechanism is under construction there. the cathode ray oscillograph described below could be used for such a purpose; if so, the Russians did not give any hint of such a use to any person in the Research and Development Division of the plant.	
3,	The main assignment for 1950 of the Research and Development Division of the Oberspreewerk is the development and construction of a high-speed cathode ray oscillograph. It is being carried out upon Russian orders and for delivery to Russia. During 1949, the division developed a cathode ray oscillograph with a writing speed of 50,000 km per second. The 1950 assignment requested construction of an oscillograph with a writing speed of 100,000km per second. Six such oscillographs have thus far been constructed. The Research and Development Division continues to work on the device for the purpose of improving it. The device is used for the recording of quickly changing events, but it works without amplifier, that is to say, its use is limited to those events where the voltage is so great that amplification is unnecessary. It cannot be used for the recording of events requiring amplification of voltage.	
25X1	Russian interest in the device lies in the fact that it can be used for the recording and measuring of the statistical variations of radar impulses and of the "Flankensteilheit." The device allows the recording of events of up to ten billion Hertz; accordingly, the shortest time interval measurable is one ten-billionth of a second. But, 25X1	
•	tion is required. The plant has never succeeded to ten million Hz. with emplification. Research on the million Hz. with derived according armitication	he problem of going beyond ten
25X1	CONILIDENTIAL	t carried out in the OSW for lack
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ARMY	This document is hereby regraded to CONFIDENTIAL in accordance with the	In Class,
	Approved For Release 2006/03/17 : CIA-RDP82-00457	72005500640004-1

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of experts and equipment. Construction of clystrons has been discontinued; the plant formerly constructed them for the Russians.

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